

**A WRITE ELEMENT HAVING A NARROW WRITER POLE  
DEFINED BY ION IMPLANTATION**

**ABSTRACT OF THE DISCLOSURE**

5        A write element includes a return pole that is separated from a  
writer pole by a writer gap layer. The writer pole has a width and a  
magnetically active region adjoining a first magnetically dead side wall.  
The magnetically active region defines a track width of the write  
element, which is less than a width of the writer pole.

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